

# **ACCESS SERVICE TARIFF PART 6**

ACCESS SERVICES TARIFF

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Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.3 Data Transmission Parameters (Cont'd)

(A) Data Transmission Parameters Type DA (Cont'd)

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz

less than 50 route miles	500 microseconds
equal to or greater than 50 route miles	900 microseconds

1004 to 2404 Hz

less than 50 route miles	200 microseconds
equal to or greater than 50 route miles	400 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBrnC0 threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	33 dB
Third Order (R3)	37 dB

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15.1 Switched Access Service (Cont'd)

15.1.3 Data Transmission Parameters (Cont'd)

(A) Data Transmission Parameters Type DA (Cont'd)

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 50 peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

(B) Data Transmission Parameters Type DB

(1) Signal to C-Notched Noise Ratio

The Signal to C-Notched Noise Ratio is equal to or greater than 30 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz

less than 50 route miles  
equal to or greater than  
50 route miles

800 microseconds  
1000 microseconds

1004 to 2404 Hz

less than 50 route mile  
equal to or greater than  
50 route miles

320 microseconds  
500 microseconds

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15.1 Switched Access Service (Cont'd)

15.1.3 Data Transmission Parameters (Cont'd)

(B) Data Transmission Parameters Type DB (Cont'd)

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnC0 threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 70 peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

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### Access Service Interfaces and Transmission Specifications

#### 15.2 Special Access Service

This section explains and lists the codes that the customer must specify when ordering Special Access Service, Switched Access Entrance Facilities, and Voice Grade and High Capacity Direct Trunked Transport. These codes provide a standardized means to relate the services being ordered to Special Access Service offerings contained in Section 7. preceding.

When ordering, the type of Special Access Service or Switched Access Entrance Facility or Direct Trunked Transport is described by two code sets, the Network Channel (NC) code and the Network Channel Interface (NCI) codes.

The Network Channel (NC) code consists of two elements. Element one is a Channel Service Code (character positions 1 and 2) that describes the channel service type in an abbreviated form. Element two is an Optional Feature Code (character positions 3 and 4) that identifies option codes available for each channel service code, such as C-conditioning or Improved Return Loss.

The Network Channel Interface (NCI) is used to identify interface specifications associated with a particular channel. This code describes the total wires, protocol, impedance, protocol options and transmission level point(s) reflecting physical and electrical characteristics between the Telephone Company and the customer.

On the following 3 pages are examples which explain the specific characters of the codes and which reference matrices and charts used in developing the codes. Included in the matrices are Service Designator (SD) codes which are used to identify variations of service within service types (e.g., TGl = Telegraph). The SD and NC codes are displayed as components of the matrices designated as Technical Specifications packages in (A) through (G) following. Through the use of these matrices, SD codes may be converted to NC codes for service ordering purposes.

A chart is also provided in 15.2.2(A) following which contains information necessary to develop NCI codes.

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### 15.2 Special Access Service (Cont'd)

Comprehensive lists of allowed Network Channel (NC) and Network Channel Interface (NCI) codes are contained in Special Report SR-ST5-000307. However, not all services contained in this Special Report may be offered by the Telephone Company at this time.

Lastly, 15.2.2(C) following provides a list of compatible Network Channel Interfaces inasmuch as the Network Channel Interfaces associated with a given service need not always be the same, but all must be compatible.

Example No. 1: If the customer wishes to order a 4-wire voice grade circuit with 600 Ohms impedance, capable of data transmission, and with improved return loss, the customer might specify the following:

<u>NC</u>	<u>NCI</u>	<u>SECNCI</u>
LG-R	04DB2	04DA2-S

NC Code:

LG = Voice Grade Channel Service, VG6  
-R = Improved Return Loss

NCI Code:

04 = Number of physical wires at CDP  
DB = Data stream in VF frequency band at the customer  
designated main terminal location  
2 = 600 Ohms impedance

SECNCI (Secondary NCI Code):

04 = Number of physical wires at CDP  
DA = Data stream in VG frequency at the customer designated  
secondary terminal location  
2 = 600 Ohms impedance  
S = Sealing current option for 4-wire transmission

In the above example the NCI (Network Channel Interface) code is the interface requested at the customer's POT (Point of Termination) and the SECNCI (Secondary Network Channel Interface) code represents the interface at the end office serving the End User.

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15.2 Special Access Service (Cont'd)

Example No. 2: If the customer wishes to order a FX circuit to a station, with 600 Ohms impedance, loop start signaling, which is 4-wire at the CDP and 2-wire at the end-user, the customer might specify:

<u>NC</u>	<u>NCI</u>	<u>SECNCI</u>
LC--	04LO2	02LS2

## NC Code:

LC = Voice Grade Channel Service, VG2  
-- = No Optional Features

## NCI Code:

04 = Number of physical wires at CDP  
LO = Loop start, loop signaling - open end  
2 = 600 Ohms impedance

## SECNCI (Secondary NCI Code):

02 = Number of physical wires at CDP  
LS = Loop start signaling - closed end  
2 = 600 Ohms impedance

Example No. 3: If the customer wishes to order a 1.544 Mbps Hi-cap facility with no channel options such as CO multiplexing, the customer might specify the following:

<u>NC</u>	<u>NCI</u>	<u>SECNCI</u>
HC--	04DS9-15	04DS9-15

## NC Code:

HC = High Capacity Channel Service, HC1  
-- = No Optional Features

## NCI, SECNCI Code:

04 = Number of physical wires at CDP  
DS = Digital hierarchy interface  
9 = 100 Ohms impedance  
15 = 1.544 Mbps (DS1) format

The preceding three examples use information contained in Special Report SR-STS-000307.

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## Access Service Interfaces and Transmission Specifications

15.2 Special Access Service (Cont'd)15.2.1 Network Channel (NC) Codes

In order to determine the NC code appropriate for the service to be ordered, the type of Special Access Service the customer wishes must be identified. This identification is accomplished by a Service Designator (SD) code. The broad categories of Service Designator codes (e.g., VG, MT, TG, etc.) are set forth in Section 7. preceding. Variations within service type (e.g., VG1, MTC, TG2, etc.) are described in the various Technical Publications cited in (A) through (G) following.

Having determined the specific service type to be ordered and its SD code, and having used the appropriate Technical Publication, the customer should match the SD code to the NC code using the following matrices. Once the NC code has been determined, the Network Channel Interface (NCI) code may be developed using the information set forth in 15.2.2 following and the guidelines concerning specific parameters available for each service type as set forth in the specified Technical Publication.

(A) Technical Specifications Packages Metallic Service

SD Code NC Code	Package			
	<u>MTC*</u> <u>MQ</u>	<u>MT1</u> <u>NT</u>	<u>MT2</u> <u>NU</u>	<u>MT3</u> <u>NV</u>
<u>Parameter</u>				
DC Resistance				
Between Conductors	X	X	X	
Loop Resistance	X			X
Shunt Capacitance	X			X
<u>Optional Features</u> <u>and Functions</u>				
Three Premises Bridging	X	X		X
Series Bridging	X		X	

The technical specifications are described in Technical Reference TR-NPL-000336.

\* All parameters are available within ranges selected by the customer where technically feasible.



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### 15.2 Special Access Service (Cont'd)

#### 15.2.1 Network Channel (NC) Codes (Cont'd)

##### (B) Technical Specifications Packages Telegraph Grade Service

SD Code NC Code	Package		
	<u>TGC*</u> <u>NQ</u>	<u>TG1</u> <u>NW</u>	<u>TG2</u> <u>NY</u>
<u>Parameter</u>			
Telegraph Distortion	X	X	X
<u>Optional Features</u> <u>and Functions</u>			
Telegraph Bridging	X	X	X

The technical specifications are described in  
Technical Reference TR-NPL-000336.

\* All parameters are available within ranges selected by the customer where technically feasible.

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15.2 Special Access Service (Cont'd)15.2.1 Network Channel (NC) Codes (Cont'd)(C) Technical Specifications Packages Voice Grade Service

SD Code NC Code	Package VG													W SE
	C*	1 LB	2 LC	3 LD	4 LE	5 LF	6 LG	7 LH	8 LJ	9 LK	10 LN	11 LP	12 LR	
<u>Parameter</u>														
Attenuation														
Distortion	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C-Message Noise	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Echo Control	X	X	X	X		X		X	X	X		X	X	X
Envelope Delay														
Distortion	X						X	X	X	X	X	X	X	X
Frequency Shift	X						X	X	X	X	X	X	X	X
Impulse Noise	X					X	X	X	X	X	X	X	X	X
Intermodulation														
Distortion	X						X	X	X	X	X	X	X	X
Loss Deviation	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phase Hits, Gain														
Hits, and Dropouts	X						X	X	X	X	X	X	X	X
Phase Jitter	X						X	X	X	X	X	X	X	X
Signal-to-C														
Message Noise					X									
Signal-to-C														
Notch Noise	X					X	X	X	X	X	X	X	X	X

The technical specifications for these parameters (except for dropouts, phase hits, and gain hits) are described in Technical References TR-NPL-000334 and TR-TSY-000335. The technical specifications for dropouts, phase hits, and gain hits are described in Technical Reference PUB 41004, Table 4.

\* The desired parameters are selected by the customer from the list of available parameters.

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15.2 Special Access Service (Cont'd)

(C) Technical Specifications Packages Voice Grade Service (Cont'd)

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## Access Service Interfaces and Transmission Specifications

15.2 Special Access Service (Cont'd)15.2.1 Network Channel (NC) Codes (Cont'd)(C) Technical Specifications Packages Voice Grade Service (Cont'd)

SD Code NC Code	Package				
	APC* <u>PQ</u>	AP1 <u>PE</u>	AP2 <u>PF</u>	AP3 <u>PJ</u>	AP4 <u>PK</u>
<u>Parameter</u>					
Actual Measured Loss	X	X	X	X	X
Amplitude Tracking		X			
Crosstalk	X	X	X	X	X
Distortion Tracking		X			
Gain/Frequency					
Distortion	X	X	X	X	X
Group Delay	X				
Noise	X	X	X	X	X
Phrase Tracking	X				
Short-Term Gain					
Stability	X				
Short-Term Loss	X				
Total Distortion	X	X	X	X	X
<u>Optional Features and Functions</u>					
Central Office					
Bridging Capability	X	X	X	X	X
Gain Conditioning	X	X	X	X	X
Stereo	X				X

The technical specifications are described in Technical Reference TR-NPL-000337 and associated Addendum.

\* The desired parameters are selected by the customer from the list of available parameters.

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## Access Service Interfaces and Transmission Specifications

### 15.2 Special Access Service (Cont'd)

#### 15.2.1 Network Channel (NC) Codes (Cont'd)

##### (E) Technical Specifications Packages Video Service

	SD Code NC Code	Package		
		<u>TVC*</u>	<u>TV1</u>	<u>TV2</u>
		<u>TQ</u>	<u>TV</u>	<u>TW</u>
<u>Video Parameters</u>				
Insertion Gain		X	X	X
Field-Time Distortion		X	X	X
Line-Time Distortion		X	X	X
Short-Time Distortion		X	X	X
Chrominance-Luminance Gain				
Inequality		X	X	X
Chrominance-Luminance Delay				
Inequality		X	X	X
Amplitude/Frequency Characteristic		X	X	X
Luminance Non-Linear Distortion		X	X	X
Chrominance Non-Linear Gain				
Distortion		X	X	X
Chrominance Non-Linear Phase				
Distortion		X	X	X
Transient Synchronizing Signal				
Non-Linearity		X	X	X
Dynamic Gain Distortion				
- Picture Signal		X	X	X
- Synchronizing Signal		X	X	X
Differential Gain		X	X	X
Differential Phase		X	X	X
Chrominance-Luminance Intermodulation		X	X	X

\* The desired parameters are selected by the customer from the list of available parameters.

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### 15.2 Special Access Service (Cont'd)

#### 15.2.1 Network Channel (NC) Codes (Cont'd)

##### (E) Technical Specifications Packages Video Service (Cont'd)

	SD Code NC Code	Package		
		<u>TVC*</u>	<u>TV1</u>	<u>TV2</u>
		<u>TQ</u>	<u>TV</u>	<u>TW</u>
<u>Audio Channel Parameters</u>				
<u>Associated with Video Service</u>				
Insertion Gain		X	X	X
Amplitude/Frequency Characteristic		X	X	X
Total Harmonic Distortion & Noise		X	X	X
Maximum Steady-State Test Levels		X	X	X
Gain Differential Between Channels		X	X	
Phase Differential Between Channels		X	X	
Crosstalk		X	X	X
Audio-To-Video Time Differential		X	X	X

The technical specifications are described in Technical Reference TR-NPL-000338.

\* The desired parameters are selected by the customer from the list of available parameters.

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## Access Service Interfaces and Transmission Specifications

15.2 Special Access Service (Cont'd)15.2.1 Network Channel (NC) Codes (Cont'd)(F) Technical Specifications Packages Digital Data Service

		Package					
	SD Code	D1	D2	D3	D4	D5	D6
	NC Code	XA	XB	XG	XH	XE	YN
<u>Parameter/Hubbed</u>							
Error-Free Seconds		X	X	X	X	X	X

Optional Features  
and Functions/Hubbed

Central Office Bridging Capability		X	X	X	X	X	X
PPSN Interface Transfer Arrangement		X	X	X	X	X	X
Transfer Arrangement		X	X	X	X	X	X

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds (if provided through a Digital Data hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference TR-NPL-000341.

	SD Code NC Code	Package					
		D1 XA	D2 XB	D3 XG	D4 XH	D5 XE	D6 YN

Optional Features  
and Functions/Hubbed

Public Packet Data Arrangement					X	X	
-----------------------------------	--	--	--	--	---	---	--

Voltages which are compatible with Digital Data Service are delineated in Technical Reference TR-NWT-00341.

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## Access Service Interfaces and Transmission Specifications

### 15.2 Special Access Service (Cont'd)

#### 15.2.1 Network Channel (NC) Codes (Cont'd)

##### (G) Technical Specifications Packages High Capacity Service

SD Code NC Code	Package					
	<u>HC0</u> <u>HS</u>	<u>HC1</u> <u>HC</u>	<u>HC1C</u> <u>HD</u>	<u>HC2</u> <u>HE</u>	<u>HC3</u> <u>HF</u>	<u>HC4</u> <u>HG</u>
<u>Parameters</u>						
Error-Free Seconds		X				
<u>Optional Features and Functions</u>						
Automatic Loop Transfer			X			
Central Office Multiplexing:						
DS4 to DS1						X
DS3 to DS1					X	
DS2 to DS1				X		
DS1C to DS1			X			
DS1 to Voice		X				
DS1 to DS0		X				
DS0 to Subrate*	X					
Transfer Arrangement		X				
Clear Channel Capability		X				

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75% over a continuous 24 hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62411.

\* Available only on a channel of 1.544 Mbps facility to a Telephone Company hub.



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15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes

The electrical interface with the Telephone Company for Special Access Services, is defined by an interface code. There are interface codes for both the customer designated premises and the point of termination. Three examples of NCI codes are found in 15.2 preceding.

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## Access Service Interfaces and Transmission Specifications

15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(A) Parameter Codes and OptionsParameter

<u>Code</u>	<u>Option</u>	<u>Definition</u>
AB	-	accepts 20 Hz ringing signal at customer's point of termination
AC	-	accepts 20 Hz ringing signal at customer's end user's point of termination
AH	-	analog high capacity interface
	B	60 kHz to 108 kHz (12 channels)
	C	312 kHz to 552 kHz (60 channels)
	D	564 kHz to 3084 kHz (600 channels)
CT	-	Centrex Tie Trunk Termination
CS	-	digital hierarchy interface at Digital Cross Connect System (DCS)
	15	1.544 Mbps (DS1) ANSI Extended Superframe (ESF) Format and B8ZSClear Channel Capability
	15A	1.544 Mbps (DS1) Superframe (SF) format
	15B	1.544 Mbps (DS1) Superframe (SF) format and B8ZS Clear Channel Capability
	15K	1.544 Mbps (DS1) Extended Superframe (ESF)
DA	-	data stream in VF frequency band at customer's end user's point of termination
DB	-	data stream in VF frequency band at customer's point of termination
	10	VF for TG1 and TG2
	43	VF for 43 Telegraph Carrier type signals, TG1 and TG2
DC	-	direct current or voltage
	1	monitoring interface with series RC combination (McCulloh format)
	2	Telephone Company energized alarm channel
	3	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)
DD	-	DATAPHONE Select-A-Station (and TABS) interface at customer's point of termination
DE	-	DATAPHONE Select-A-Station (and TABS) interface at the customer's end user's point of termination

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15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(A) Parameter Codes and Options (Cont'd)Parameter (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DS -		digital hierarchy interface
-	15	1.544 Mbps (DS1) format per PUB 41451 plus D4
-	15E	8-bit PCM encoded in one 64 kbps of the DS1 signal
-	15F	8-bit PCM encoded in two 64 kbps of the DS1 signal
-	15G	8-bit PCM encoded in three 64 kbps of the DS1 signal
-	15H	14/11-bit PCM encoded in six 64 kbps of the DS1 signal
-	15J	1.544 Mbps format per PUB 62411
-	15K	1.544 Mbps format per PUB 62411 plus extended framing format
-	15L	1.544 Mbps (DS1) with SF signaling
-	27	274.176 Mbps (DS4)
-	27L	274.176 Mbps (DS4) with SF signaling
-	31	3.152 Mbps (DS1C)
-	31L	3.152 Mbps (DS1C) with SF signaling
-	44	44.736 Mbps (DS3)
-	44L	44.736 Mbps (DS3) with SF signaling
-	63	6.312 Mbps (DS2)
-	63L	6.312 Mbps (DS2) with SF signaling
DU -		digital access interface
-	24	2.4 kbps
-	48	4.8 kbps
-	19	19.2 Kbps
-	56	56.0 kbps
-	96	9.6 kbps
-	64	64.0 Kbps
-	A	1.544 Mbps format per PUB 62411
-	B	1.544 Mbps format per PUB 62411 plus D4
-	C	1.544 Mbps format per PUB 62411 plus extended framing format
-	1KN	1.544 Mbps ANSI Extended Superframe (ESF) Format without line power
-	1SN	1.544 Mbps ANSI Extended Superframe (ESF) Format with B8ZS Clear
-	AN	Channel Capability and without line power
-	BN	1.544 Mbps free-framing format without line power (only avail. to U.S. Govt. agencies)
-		1.544 Mbps Superframe (SF) Format without line power

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15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(A) Parameter Codes and Options (Cont'd)Parameter (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
-	DN	1.544 Mbps Superframe (SF) Format with B8ZS Clear Channel Capability without line power
DX	-	duplex signaling interface at customer's point of termination
DY	-	duplex signaling interface at customer's end user's point of termination
EA	E	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EA	M	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EB	E	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EB	M	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EC	-	Type III E&M signaling at customer POT
EX	A	tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions.
EX	B	tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions.
GO	-	ground start loop signaling - open end function by customer or customer's end user
GS	-	ground start loop signaling - closed end function by customer or customer's end user
IA	-	E.I.A. (25 pin RS-232)
LA	-	end user loop start loop signaling - Type A OPS registered port open end
LB	-	end user loop start loop signaling - Type B OPS registered port open end
LC	-	end user loop start loop signaling - Type C OPS registered port open end

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## Access Service Interfaces and Transmission Specifications

15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(A) Parameter Codes and Options (Cont'd)Parameter (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
LO -		loop start loop signaling - open end function by customer or customer's end user
LR -		20 Hz automatic ringdown interface at customer with Telephone Company provided PLAR
LS -		loop start loop signaling - closed end function by customer or customer's end user
NO -		no signaling interface, transmission only
PG -		program transmission - no dc signaling
	1	nominal frequency from 50 to 15000 Hz
	3	nominal frequency from 200 to 3500 Hz
	5	nominal frequency from 100 to 5000 Hz
	8	nominal frequency from 50 to 8000 Hz
PR -		protective relaying*
RV -	0	reverse battery signaling, one way operation, originate by customer
	T	reverse battery signaling, one way operation, terminate function by customer or customer's end user
SF -		single frequency signaling with VF band at either customer POT or customer's end user POT
TF -		telephotograph interface
TT -		telegraph/teletypewriter interface at either customer POT or customer's end user POT
	2	20.0 milliamperes
	3	3.0 milliamperes
	6	62.5 milliamperes
TV -		television interface
	1	combined (diplexed) video and one audio signal
	2	combined (diplexed) video and two audio signals
	5	video plus one (or two) audio 5 kHz signal(s) or one (or two) two wire
	15	video plus one (or two) audio 15 kHz signal(s)

\* Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

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## Access Service Interfaces and Transmission Specifications

15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(B) Impedance

The nominal reference impedance with which the channel will be terminated for the purpose of evaluating transmission performance:

<u>Value (ohms)</u>	<u>Code(s)</u>
110	0
150	1
600	2
900	3+
135	5
75	6
124	7
Variable	8
100	9

\* For those interface codes with a 4-wire transmission path at the customer designated POT, rather than a standard 900 ohm impedance the code (3) denotes a customer provided transmission equipment termination. Such terminations were provided to customers in accordance with the F.C.C. Docket No. 20099 Settlement Agreement.

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## Access Service Interfaces and Transmission Specifications

15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(C) Compatible Network Channel Interfaces

The following tables show the Network Channel Interface codes (NCIs) which are compatible:

(1) MetallicCompatible CIs

2DC8-1	2DC8-2
2DC8-3	2DC8-3
4DS8	2DC8-1
4DS8	2DC8-2

(2) Telegraph GradeCompatible CIs

2DB2-10	10IA8
	2TT2-2
	4TT2-2
2DB2-43*	10IA8
	2TT2-2
	2TT2-6
	4TT2-2
2TT2-2	2TT2-2
2TT2-3	2TT2-2
	4TT2-2
2TT2-6	2TT2-6
	4TT2-6

Compatible CIs

4DB2-10	10IA8
	2TT2-2
	4TT2-2
4DB2-43*	10IA8
	2TT2-6
	4TT2-2
4DS8-	10IA8
	2TT2-2
	2TT2-6
	4TT2-2
	4TT2-6
4TT2-2	4TT2-2
4TT2-6	2TT2-6

\* Supplemental Channel Assignment information required.

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15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(C) Compatible Network Channel Interfaces (Cont'd)(3) Voice Grade

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
2AB2	2AC2	2DB2	2DA2	2LR2	2LR2
2AB3	2AC2	2DB3	2DA2	2LR3	2LR2
2CT3	2DY2	2DX3	2LA2	2LS	2GS
	4DS8		2LB2		2LS
	4DX2		2LC2		4GS
	4DX3		2LO3		4LS
	4DY2		2LS2		
	4EA2-E	2LS3	2LS2		2LA2
	4EA2-M				2LB2
	4SF2	2GO2	2GS2		2LC2
	4SF3		2GS3		
	6DX2			2LS3	2LA2
	6DY2	2GO3	2GS2		2LB2
	6DY3		2GS3		2LC2
	6EA2-E				
	6EA2-M	2GS	2GS	2N02	2DA2
	6EB2-E		2LS		2N02
	6EB2-M		4GS		
	6EB3-E		4LS	2N03	2N02
	8EB2-E				2PR2
	8EB2-M	2L02	2LS2		
	8EC2	2LS3	2TF3		2TF2
	9DY2				
	9DY3	2L03	2LS2		
	9EA2		2LS3		
	9EA3				



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15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(C) Compatible Network Channel Interfaces (Cont'd)(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AB2	2AC2 4AB2 4AC2 4SF2				
4AB3	2AC2 4AC2 4SF2				
4AC2	2AC2 4AC2				
		4DS8-	2AC2 2DA2 2DY2 2GO2 2GO3 2GS2	4DS8-	4DG2 4LR2 4LS2 4NO2 4PR2 4RV2-T
4DA2	4DA2		2GS3 2LA2 2LB2 2LC2 2LO2 2LO3 2LR2 2LS2 2LS3		4SF2 4SF3 4TF2 6DA2 6DY2 6DY3 6EA2-E 6EA2-M 6EB2-E
4DB2	2DA2 2NO2 2PR2 4DA2 4DB2 4NO2 4PR2 6DA2		2NO2 2PR2 2RV2-T 2TF2 4AC2 4DA2 4DE2 4DX2 4DX3 4DY2 4EA2-E 4EA2-M		6EB2-M 6GS2 6LS2 8EB2-E 8EB2-M 9DY2 9DY3 9EA2 9EA3
4DD3	2DE2 4DE2				

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15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(C) Compatible Network Channel Interfaces (Cont'd)(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DX2	2DY2	4DX2	8EB2-E	4DX3	6DY2
	2LA2		8EB2-M		6DY3
	2LB2		9DY2		6EA2-E
	2LC2		9DY3		6EA2-M
	2LO3		9EA2		6EB2-E
	2LS2		9EA3		6EB2-M
	2LS3				6LS2
	2RV2-T	4DX3	2DY2		8EB2-E
	4DX2		2LA2		8EB2-M
	4DY2		2LB2		9DY2
	4EA2-E		2LC2		9DY3
	4EA2-M		2LO3		9EA2
	4LS2		2LS2		9EA3
	4RV2-T		2LS3		
	4SF2		2RV2-T	4DY2	2DY2
	4SF3		4DX2		4DY2
	6DY2		4DX3		
	6DY3		4DY2		
	6EA2-E		4EA2-E		
	6EA2-M		4EA2-M		
	6EB2-E		4LS2		
	6EB2-M		4RV2-T		
	6LS2		4SF2		
			4SF3		

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15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(C) Compatible Network Channel Interfaces (Cont'd)(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4EA2-E	2DY2	4EA3-E	2DY2	4G02	2G02
	4DY2		4DY2		2G03
	4EA2-E		4EA2-E		2GS2
	4EA2-M		4EA2-M		2GS3
	4SF2		4SF2		4GS2
	6DY2		6DY2		4SF2
	6DY3		6DY3		6GS2
	6EB2-E		6EA2-E	4G03	
	6EB2-M		6EA2-M		2G02
	8EB2-E		6EB2-E		2GS2
	8EB2-M		6EB2-M		2GS3
	9DY2		8EB2-E		4GS2
	9DY3		8EB2-M		4SF2
			9DY2		6GS2
4EA2-M	2DY2		9DY3	4GS	
	4DY2		9EA2		
	4EA2-M		9EA3		2GS
	4SF2				2LS
	6DY2				4GS
	6DY3				4LS
	6EB2-E				
	6EB2-M				
	8EB2-E				
	8EB2-M				
	9DY2				
	9DY3				

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15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(C) Compatible Network Channel Interfaces (Cont'd)(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4LO2	2LS2	4LS3	2LA2	4SF2	2LO3
	2LS3		2LB2		2LR2
	4LS2		2LC2		2LS2
	4SF2		2LO2		2LS3
	6LS2		2LO3		2RV2-T
4LO3			4SF2		4AC2
	2LS2	4NO2			4DY2
	2LS3		2DA2		4LS2
	4LS2		2DE2		4RV2-T
	4SF2		2NO2		4SF2
4LR2	6LS2		4DA2		6DY2
			4DE2		6DY3
	2LR2		4NO2		6GS2
	4LR2		6DA2		9DY2
	4SF2				9DY3
4LR3		4RV2-0	2RV2-T	4SF3	2DY2
	2LR2		4RV2-T		2GO3
	4LR2		4SF2		2GS2
	4SF2				2GS3
4LS	2GS	4SF2	2AC2		2LA2
	2LS		2DY2		2LB2
	4GS		2GS2		2LC2
	4LS		2GS3		2LO3
4LS2			2LA2		2LR2
	2LA2		2LB2		
	2LB2		2LC2		
	2LC2				
	2LO2				
	2LO3				

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15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(C) Compatible Network Channel Interfaces (Cont'd)(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4SF3	2LS2	6DA	4DA2	6DY3	2DY2
	2LS3		6DA2		4DY2
	2RV2-T				6DY2
	4DY2	6DX2	2DY2		6DY3
	4EA2-E		4DY2		
	4EA2-M		4EA2-E	6EA2-E	2AC2
	4GS2				
	4LR2		4EA2-M		2DY2
	4LS2		4SF2		2LA2
	4RV2-T		6DY2		2LB2
	4SF2		6DY3		2LC2
	4SF3		6EA2-E		2LO3
	6DY2		6EA2-M		2LS2
	6DY3		6EB2-E		2LS3
	6EB2-E		6EB2-M		2RV2-T
	6EB2-M		8EB2-E		4AC2
	6GS2		8EB2-M		4DY2
	6LS2		9DY2		4EA2-E
	9DY2		9DY3		4EA2-M
	9DY3		9EA2		4LS2
	9EA2		9EA3		4RV2-T
	9EA3				4SF2
		6DY2	2DY2		4SF3
4TF2	2TF2		4DY2		6DY2
	4TF2		6DY2		6DY3
					6EA2-E
					6EA2-M

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15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(C) Compatible Network Channel Interfaces (Cont'd)(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6EA2-E	6EB2-E	6EA2-M	6DY2	6EB3-E	2DY2
	6EB2-M		6DY3		4DY2
	6LS2		6EA2-M		4EA2-E
	8EB2-E		6EB2-E		4EA2-M
	8EB2-M		6EB2-M		4SF2
	9DY2		6LS2		6DY2
	9DY3		8EB2-E		6DY3
			8EB2-M		6EA2-E
			9DY2		6EA2-M
			9DY3		8EB2-E
6EA2-M	2AC2	6EB2-E	2DY2	6EX2-A	2GS2
	2DY2		4DY2		2GS3
	2LA2		4SF2		2LS2
	2LB2		6DY2		2LS3
	2LC2		6DY3		4GS2
	2LO3		6EB2-E		4LS2
	2LS2		6EB2-M		4SF2
	2LS3		9DY2		6GS2
	2RV2-T		9DY3		6LS2
	4AC2	6EB2-M	2DY2	6EB2-M	9DY2
	4DY2		4DY2		9DY3
	4EA2-E		4SF2		
	4EA2-M		6DY2		
	4LS2		6EB2-M		
	4RV2-T		9DY2		
	4SF2		9DY3		
	4SF3				
	6DY3				

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15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(C) Compatible Network Channel Interfaces (Cont'd)(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6EX2-B	2GO3	8EB2-E	2AC2	8EB2-M	2AC2
	2LA2		2DY2		2DY2
	2LB2		2LA2		2LA2
	2LC2		2LB2		2LB2
	2LO2		2LC2		2LC2
	2LO3		2LO3		2LO3
	2LR2		2LS2		2LS2
	4LR2		2LS3		2LS3
	4SF2		2RV2-T		2RV2-T
6GO2	2GO2		4AC2		4AC2
			4DY2		4DY2
			4LS2		4LS2
			4RV2-T		4RV2-T
			4SF2		4SF2
			4SF3		4SF3
6LO2	2LS2		6DY2		6DY2
			6DY3		6DY3
			6EB2-E		6EB2-E
			6EB2-M		6EB2-M
			6LS2		6LS2
			8EB2-E		8EB2-M
6LS2	2LA2		8EB2-M		9DY2
			9DY2		9DY3
			9DY3		
	2LB2				
	2LC2				
	2LO2				
	2LO3				
	4SF2				

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15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(C) Compatible Network Channel Interfaces (Cont'd)(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
8EC2	2DY2	9DY2	2DY2	9EA3	2DY2
	4DY2		4DY2		4DY2
	4EA2-E		6DY2		4EA2-E
	4EA2-M		6DY3		4EA2-M
	4SF2		9DY2		6DY2
	6DY2				6DY3
	6DY3	9DY3	2DY2		6EA2-E
	6EA2-E		4DY2		6EA2-M
	6EA2-M		6DY2		6EB2-E
	6EB2-E		6DY3		6EB2-M
	6EB2-M		9DY2		8EB2-E
	8EB2-E		9DY3		8EB2-M
	8EB2-M				9DY2
	9DY2	9EA2	2DY2		9DY3
	9DY3		4DY2		9EA3
	9EA2		4EA2-E		
	9EA3		4EA2-M		
			6DY2		
			6DY3		
			6EA2-E		
			6EA2-M		
			6EB2-E		
			6EB2-M		
			8EB2-E		
			8EB2-M		
			9DY2		
			9DY3		
			9EA2		
			9EA3		



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### 15.2 Special Access Service (Cont'd)

#### 15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

##### (C) Compatible Network Channel Interfaces (Cont'd)

###### (4) Program Audio

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
2PG2-1	2PG1-1 2PG2-1	4DS8-15E	2PG1-3 2PG2-3
2PG2-3	2PG1-3 2PG2-3	4DS8-15F	2PG1-5 2PG2-5
2PG2-5	2PG1-5 2PG2-5	4DS8-15G	2PG1-8 2PG2-8
2PG2-8	2PG1-8 2PG2-8	4DA8-15H	2PG1-1 2PG2-1

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15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(C) Compatible Network Channel Interfaces (Cont'd)(5) Video

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
2TV6-1	4TV6-15 4TV7-15	4TV7-5	4TV6-5 4TV7-5
2TV6-2	6TV6-15 6TV7-15	4TV7-15	4TV6-15 4TV7-15
2TV7-1	4TV6-15 4TV7-15	6TV6-5	6TV6-5 6TV7-5
2TV7-2	6TV6-15 6TV7-15	6TV6-15	6TV6-15 6TV7-15
4TV6-5	4TV6-5 4TV7-5	6TV7-5	6TV6-5 6TV7-5
4TV6-15	4TV6-15 4TV7-15	6TV7-15	6TV6-15 6TV7-15

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### 15.2 Special Access Service (Cont'd)

#### 15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

##### (C) Compatible Network Channel Interfaces (Cont'd)

###### (6) Digital Data

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS8-15	4DS8-15+	4DU5-24	4DU5-24	6DU5-24	6DU5-24
	4DU5-24				
	4DU5-48	4DU5-48	4DU5-48	6DU5-48	6DU5-48
	4DU5-56				
	4DU5-96	4DU5-96	4DU5-96	6DU5-56	6DU5-56
	6DU5-24				
	6DU5-48	4DU8-56	4DU5-56	6DU5-96	6DU5-96
	6DU5-96				

+ Available only as a cross connect of two digital channels at appropriate digital speeds at a Telephone Company hub.

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## Access Service Interfaces and Transmission Specifications

### 15.2 Special Access Service (Cont'd)

#### 15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

##### (C) Compatible Network Channel Interfaces (Cont'd)

###### (7) High Capacity

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS0-63	4DS0-63 4DU8-A,B or C 6DU8-A,B or C	4DS8-15J	4DU8-A 6DU8-A
4DS6-27	4DS6-27 4DU8-A,B or C 6DU8-A,B or C	4DS8-15K	4DU8-B 4DU8-C 6DU8-B 6DU8-C
4DS6-44	4DS6-44 4DU8-A,B or C 6DU8-A,B or C	4DS8-31	4DS8-31 4DU8-A,B or C 6DU8-A,B or C
4DS8-15	4DS8-15+ 4DU8-B 6DU8-8	4DU8-A,B or C	4DU8-A,B or C

+ Available only as a cross connect of two individual channels of 1.544 Mbps facilities at a Telephone Company hub.

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Access Service Interfaces and Transmission Specifications

15.3 Directory Access Service

15.3.1 Interface Group and Premise Interface Codes

When Directory Access Service is combined with Feature Group B, C or D Switched Access Service, the Premises Interface Code for the combination will be the available Premises Interface Code provided for the Feature Group B, C or D Switched Access Service ordered by the customer. Premises Interface Codes are described in 15.1.1(G) preceding.

When Directory Access Service is provided as a separate trunk group (not in combination with Switched Access Service) Interface Groups 2 through 10 as set forth in 15.1.1 preceding are available. Only the following Premises Interface Codes are available when Directory Access Service is provided as a separate trunk group:

4DS9-15	6EA2-E	4RV2-O
4DS9-31	6EA2-M	4AH5-B
4DS0-63	4SF3	4AH6-C
4DS6-44		4AH6-D
4DS6-27		

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## Access Service Interfaces and Transmission Specifications

15.3 Directory Access Service (Cont'd)15.3.2 Standard Transmission Specifications

Following is a matrix illustrating the transmission specifications available with Directory Access Service. Descriptions of the Standard Transmission Specifications, Type A and B, are set forth respectively in 15.1.2(E) and (F) preceding.

<u>Directory Access Service Provided in Combination with Switched Access Service</u>	<u>Transmission Specifications</u>	
	<u>Type A</u>	<u>Type B</u>
- Feature Group B		
- (Interface Groups 2 through 10)		X
- Feature Group C		X
- Feature Group D	X	
 <u>Directory Access Service Not Combined with Switched Access Service</u>		
- Routed Direct to DA location (Interface Groups 2 through 10)		X
- Routed via an access tandem (Interface Groups 2 through 10)	X	

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## Rates and Charges

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Rates and Charges

17.1 Common Line Access Service

17.1.1 Carrier Common Line Access Service

Rate

Regulations concerning Carrier Common  
Line Access are set forth in Section 3.  
preceding.

Premium rate, per Originating Access Minute  
Premium rate, per Terminating Access Minute

\$0.003409  
\$0.013195

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## Rates and Charges

17.2 Switched Access Service17.2.1 Nonrecurring Charges(A) Local Transport - Installation

<u>Per Entrance Facility</u>	<u>Initial</u>	<u>Additional</u>
- Voice Grade Two-Wire	\$308.95	\$119.49
- Voice Grade Four-Wire	\$314.69	\$125.19
- High Capacity DS1	\$866.97	\$486.83
- High Capacity DS3	\$870.50	\$427.88

(C) Interim NXX Translation Per Order

<u>Per LATA or Market Area</u>	\$43.61	\$21.51
--------------------------------	---------	---------

(D) FGC and FGD Conversion of  
Multifrequency Address Signaling  
to SS7 Signaling or SS7 Signaling  
to Multifrequency Address Signaling

- Per 24 Trunks Converted or Fraction thereof on a Per Order Basis	\$437.86	\$100.00
--	----------	----------

(E) Trunk Activation, per Order

- Per 24 Trunks Activated or Fraction thereof, on a Per Order Basis	\$437.86	\$100.00
---	----------	----------

(F) Local Transport - Installation  
Per Line or Trunk

1. Voice Grade	\$79.85	\$79.85
2. DS0-56/64 Kbps	\$24.01	\$24.01
3. DS1-1.544 Mbps	\$100.49	\$100.49
4. DS3-44.736 Mbps	\$67.19	\$67.19

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Rates and Charges17.2 Switched Access Service (Cont'd)17.2.2 Local TransportRate Min/Max  
SEE CURRENT PRICE LIST

- Entrance Facility
  - Voice Grade Two-Wire, per Termination \$23.00 - \$31.00
  - Voice Grade Four-Wire, per Termination \$38.00 - \$52.00
  - High Capacity DS1, per Termination \$112.00 - \$151.00
  - High Capacity DS3, per Termination \$1841.00 - \$2491.00
- Direct Trunked Transport
  - Direct Trunked Facility, per Mile
    - Voice Grade \$1.90 - \$2.60
    - High Capacity DSO \$3.00 - \$5.00
    - High Capacity DS1 \$21.50 - \$29.00
    - High Capacity DS3 \$185.00 - \$285.00
  - Direct Trunked Termination, per Termination
    - Voice Grade \$15.30 - \$23.30
    - High Capacity DSO \$33.00 - \$45.00
    - High Capacity DS1 \$77.00 - \$104.00
    - High Capacity DS3 \$1310.00 - \$1773.00
- Multiplexing, per Arrangement
  - DS3 to DS1 \$892.00 - \$1207.00
  - DS1 to Voice -
- Carrier Identification Parameter (CIP)
  - Voice Grade \$3.19
  - DS1 \$76.56
  - DS3 \$2,143.68
- Tandem Switched Transport
  - Tandem Switched Facility  
Per Access Minute Per Mile \$0.00002 - \$0.00005
  - Tandem Switched Termination  
Per Access Minute Per Termination \$0.00018 - \$0.00041
  - Tandem Switching  
Per Access Minute Per Tandem \$0.000740
- Residual Interconnection Charge  
Per Access Minute \$0.000000

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Rates and Charges17.2 Switched Access Service (Cont'd)17.2.2 Local Transport (Cont'd)RateNetwork Blocking, Per Blocked Call

Applies to FGD only

\$0.008000

800/888/877 Data Base Access Service Queries

Per Completed Query:

Basic

\$0.004000

Vertical Feature

\$0.004500

17.2.3 End Office(A) Local Switching (LS1/LS2)

Per Access Minute

\$0.005770

(B) Information Surcharge

- Per 100 Access Minutes

\$0.018700

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## Rates and Charges

17.2 Switched Access Service (Cont'd)17.2.4 Price List

		<u>Monthly Rate</u>
-	<u>Entrance Facility</u>	
-	Voice Grade Two-Wire, per Termination	\$25.00
-	Voice Grade Four-Wire, per Termination	\$45.24
-	High Capacity DS1, per Termination	\$133.81
-	High Capacity DS3, per Termination	\$2,100.00
-	<u>Direct Trunked Transport</u>	
-	Direct Trunked Facility, per Mile	
-	Voice Grade	\$1.90
-	High Capacity DS0	\$3.95
-	High Capacity DS1	\$23.00
-	High Capacity DS3	\$175.00
-	Direct Trunked Termination, per Termination	
-	Voice Grade	\$23.30
-	High Capacity DS0	\$38.37
-	High Capacity DS1	\$90.00
-	High Capacity DS3	\$1,200.00
-	<u>Multiplexing, per Arrangement</u>	
-	DS3 to DS1	\$970.00
-	DS1 to Voice	-
-	<u>Tandem Switched Transport</u>	
-	Tandem Switched Facility Per Access Minute Per Mile	\$0.000020
-	Tandem Switched Termination Per Access Minute Per Termination	\$0.000180

17.2.5 RESERVED FOR FUTURE USE

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## Rates and Charges

17.2	<u>Switched Access Service</u> (Cont'd)	
17.2.6	<u>Assumed Minutes of Use</u>	<u>Assumed Minutes Per Month</u>
(A)	Feature Group A, Two Way Calling (1510 Originating, 2685 Terminating)	4195
(B)	Feature Group A, Originating Only	1510
(C)	Feature Group A, Terminating Only	2685
(D)	Feature Group B, Two Way Calling (3132 Originating, 5568 Terminating)	8700
(E)	Feature Group B, Originating Only	3132
(F)	Feature Group B, Terminating Only	5568

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Rates and Charges

17.3 Special Access Service

17.3.1 Surcharge for Special Access Service

- Per Voice Grade Equivalent

Monthly  
Rate  
\$25.00

17.3.2 Metallic Service

Regulations concerning Metallic Service are set forth in 7.4 preceding. Rates are developed on an individual case basis (ICB).



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17.3 Special Access Service (Cont'd)

17.3.3 Telegraph Grade Service

Regulations concerning Telegraph Grade Service are set forth in 7.5 preceding. Rates are developed on an individual case basis (ICB).

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## Rates and Charges

17.3 Special Access Service (Cont'd)17.3.4 Voice Grade Service

Regulations concerning Voice Grade Service are set forth in 7.6 preceding.

		Monthly <u>Rate</u>	Nonrecurring Charge <u>Initial</u> <u>Additional</u>	
(A)	Channel Termination Per Termination			
	- Two-Wire	\$42.40	\$234.00	\$234.00
	- Four Wire	\$67.77	\$234.00	\$234.00
(B)	Channel Mileage			
	(1) Channel Mileage Facility Per Mile	\$2.35		
	(2) Channel Mileage Termination Per Termination	\$31.27		
(C)	Optional Features and Functions			
	(1) Bridging			
	(a) Voice Bridging Per Port			
	Two-Wire/Four Wire			
	- 2 Wire/4 Wire	\$4.75		

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## Rates and Charges

### 17.3 Special Access Service (Cont'd)

#### 17.3.4 Voice Grade Service (Cont'd)

##### (C) Optional Features and Functions (Cont'd)

(1)	Bridging (Cont'd)	Monthly Rate
(b)	Data Bridging per port	
	- 2 Wire/4 Wire	\$4.75
(c)	Telephoto Bridging per port	
	- 2 Wire/4 Wire	\$4.75
(d)	DATAPHONE Select-A-Station Bridging	
	Sequential Arrangement, Ports Per channel connected	
	- Two-Wire	\$21.31
	- Four-Wire	\$113.06
	Addressable Arrangement, Ports Per channel connected	
	- Two-Wire	\$22.82
	- Four-Wire	\$116.16
(e)	<u>Telemetry and Alarm Bridging</u>	
	Active Bridging Channel Connections Per channel connected	
	- Split Band	\$8.89
	- Summation	\$3.47
	Passive Bridging Channel Connections Per channel connected	\$0.24

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## Rates and Charges

### 17.3 Special Access Service (Cont'd)

#### 17.3.4 Voice Grade Service (Cont'd)

#### (C) Optional Features and Functions (Cont'd)

		Monthly Rate
(2)	Conditioning Per Termination	
	- C-Type	\$16.30
	- Data Capability	\$3.94
	- Telephoto Capability	\$8.67
	- Sealing Current	None
(3)	Improved Return Loss for Effective Two-Wire or Four-Wire Transmission Per Termination	
	- 2 Wire/4 Wire	\$7.15
(4)	Customer Specified Receive Level per two-wire termination	\$3.44

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## Rates and Charges

17.3 Special Access Service (Cont'd)17.3.4 Voice Grade Service (Cont'd)

## (C) Optional Features and Functions (Cont'd)

	Monthly Rate
(5) Multiplexing Per arrangement Voice to Telegraph Grade	\$217.29
(6) Signaling Capability Per termination	\$11.73
(7) Selective Signaling Arrangement Per arrangement	\$6.38
(8) Transfer Arrangement (key activated* or Dial-Up**)	
- Per four port arrangement including control channel termination***	\$3.01
- Per five port arrangement including control channel termination***	\$6.85
(9) Public Packet Switching Network (PPSN) Interface Arrangement Per arrangement	ICB

\* The key activated control channel is rated as a Metallic Channel Termination and Channel Mileage, if applicable.

\*\* The Dial-Up option requires the customer to purchase the Controller Arrangement from 13.3.8 preceding.

\*\*\* An additional Channel Termination charge will apply whenever a spare channel is configured as a leg to the customer designated premises. Additional channel mileage charges will also apply when the transfer arrangement is not located in the customer designated premises serving wire center.

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Rates and Charges

17.3 Special Access Service (Cont'd)

17.3.5 Program Audio Service

Regulations concerning Program Audio Service are set forth in 7.7 preceding. Rates are per Windstream South Carolina's Interstate Access Tariff.

17.3.6 Video Service

Regulations concerning Video Service are set forth in 7.8 preceding. Rates are per Windstream South Carolina's Interstate Access Tariff.

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## Rates and Charges

17.3 Special Access Service (Cont'd)17.3.7 Digital Data ServiceRegulations concerning  
Digital Data Service  
set forth in 7.9 precedingMonthly  
RateNonrecurring Charge  
Initial    Additional(A) Channel Termination  
Per termination

-	2.4 kbps	\$76.47	\$221.00	\$221.00
-	4.8 kbps	\$76.47	\$221.00	\$221.00
-	9.6 kbps	\$76.47	\$221.00	\$221.00
-	19.2 kbps	\$76.47	\$221.00	\$221.00
-	56.0 kbps	\$79.05	\$221.00	\$221.00
-	64.0 kbps	\$79.05	\$221.00	\$221.00

## (B) Channel Mileage

## (1) Channel Mileage Facility, per mile

-	2.4 kbps	\$2.54
-	4.8 kbps	\$2.54
-	9.6 kbps	\$2.54
-	19.2 kbps	\$2.54
-	56.0 kbps	\$5.08
-	64.0 kbps	\$5.08

## (2) Channel Mileage Termination, per Termination

-	2.4 kbps	\$24.14
-	4.8 kbps	\$24.14
-	9.6 kbps	\$24.14
-	19.2 kbps	\$24.14
-	56.0 kbps	\$48.28
-	64.0 kbps	\$48.28

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## Rates and Charges

17.3 Special Access Service (Cont'd)17.3.7 Digital Data Service (Cont'd)

## (C) Optional Features and Functions

Monthly  
Rate

(1)	Bridging Per port	\$4.75
(2)	Loop Transfer Arrangement Per four port arrangement* Key activated** or Dial-Up***	\$5.97
(3)	Public Packet Switching Network Interface Arrangement	
-	Per 9.6 kbps arrangement	ICB
-	Per 56.0 kbps arrangement	ICB
(D)	Channel Service Unit Per Termination****	
-	2.4 kbps	\$25.90
-	4.8 kbps	\$25.90
-	9.6 kbps	\$32.10
-	56.0 kbps	\$34.14

- \* An additional Channel Termination charge will apply whenever a spare channel is configured as a leg to the customer designated premises. Additional Channel Mileage charges will also apply when the transfer arrangement is not located in the customer designated premises serving wire center.  
ICB Rates and Charges are filed in 17.3.9 following.
- \*\* The key activated control channel is rated as a Metallic Channel Termination and Channel Mileage, if applicable.
- \*\*\* The Dial-Up option requires the customer to purchase the Controller Arrangement from 13.3.4 preceding.
- \*\*\*\* Channel Service Units will only be provided under tariff if they existed in the Telephone Company's inventory as of November 18, 1983.



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## Rates and Charges

### 17.3 Special Access Service (Cont'd)

#### 17.3.8 High Capacity Service

Regulations concerning High Capacity Service are set forth 7.10 preceding.

(A) <u>Channel Term, per Termination</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
		<u>Initial</u>	<u>Additional</u>
- DS1 1.544 Mbps	\$205.99	\$429.00	\$429.00
- DS1C 3.152 Mbps	ICB	ICB	ICB
- DS2 6.312 Mbps	ICB	ICB	ICB
- DS3 44.736 Mbps	ICB	ICB	ICB
- DS4 274.176 Mbps	ICB	ICB	ICB

#### (B) Channel Mileage

##### (1) Channel Mileage Facility, per mile

- 64 Kbps	\$5.08
- 1.544 Mbps	\$46.00
- 3.152 Mbps	ICB
- 6.312 Mbps	ICB
- 44.736 Mbps	ICB
- 274.176 Mbps	ICB

##### (2) Channel Mileage Term, per Termination

- 64 Kbps	\$48.28
- 1.544 Mbps	\$139.63
- 3.152 Mbps	ICB
- 6.312 Mbps	ICB
- 44.736 Mbps	ICB
- 274.176 Mbps	ICB

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## Rates and Charges

### 17.3 Special Access Service (Cont'd)

#### 17.3.8 High Capacity Service (Cont'd)

		Monthly Rate
(C)	<u>Optional Features and Functions</u>	
(1)	Multiplexing, per arrangement	
	DS4 to DS1	ICB
	DS3 to DS1	\$608.37
	DS1 to Voice**	\$196.53
	DS1 to DS0	\$198.38
	DS0 to Subrates --	
	Up to 20 2.4 kbps services	\$301.92
	Up to 10 4.8 kbps services	\$185.32
	Up to 5 9.6 kbps services	\$161.92
(2)	Automatic Loop Transfer	\$389.24
(3)	Transfer Arrangement* (per 4 port)	\$165.42

#### 17.3.9 Individual Case Basis

\* An additional Channel Termination charge will apply whenever the spare line is provided as a leg to the customer designated premises.

\*\* A channel of this DS1 to the Hub can be used for Digital Data service. ICB rates and charges are filed in 17.3.9 following.

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## Rates and Charges

17.4 Other Services17.4.1 Access OrderingCharge(A) Access Order Charge

Per Special Access Order	\$104.00
Per Switched Access Rearrangement Order	\$92.00

(B) Service Date Change Charge

A service Date Change Charge will apply, on a per order per occurrence basis, for each service date changed. The Access Order Charge as specified in 17.4.1(A) preceding does not apply. The applicable charge is:

Service Date Change Charge, per order	\$40.00
---------------------------------------	---------

(C) Design Change Charge

The Design Change Charge will apply on a per order per occurrence basis, for each order requiring design change. The applicable charge is:

Design Change Charge, per order	\$40.00
---------------------------------	---------

(D) Miscellaneous Service Order Charge

Per Occurrence	\$40.00
----------------	---------

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Rates and Charges

17.4 Other Services (Cont'd)

17.4.2 Additional Engineering

	Each Half Hour or Fraction Thereof
(A) Basic Time per engineer normally scheduled working hours	\$16.97
(B) Overtime per engineer outside of normally scheduled working hours	\$25.46
(C) Premium Time outside of scheduled work day, per engineer	\$33.95

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## Rates and Charges

17.4 Other Services (Cont'd)17.4.3 Additional Labor

	Each Half Hour or Fraction Thereof
(A) Installation or Repair	
- Overtime, outside of normally scheduled working hours on a scheduled work day, per technician	\$23.71*
- Premium Time, outside of scheduled work day, per technician	\$31.62*
(B) Stand by	
- Basic time, normally scheduled working hours, per technician	\$16.20
- Overtime, outside of normally scheduled working hours on a scheduled work day, per technician	\$24.30*
- Premium Time, outside of scheduled work day, per technician	\$32.40*
(C) Testing and Maintenance with other Telephone Companies, or Other Labor	
- Basic Time per technician normally scheduled working hours	\$17.01
- Overtime per technician outside of normally scheduled working hours on a scheduled work day,	\$25.51*
- Premium Time per technician outside of scheduled work day	\$34.02

\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

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## Rates and Charges

### 17.4 Other Services (Cont'd)

#### 17.4.4 Miscellaneous Services

##### (A) Additional Cooperative Acceptance Testing - Switched Access

##### Testing Periods

Basic Time, Overtime\*  
and Premium Time\*

Each Half  
Hour or  
Fraction  
Thereof

See the rates  
for  
Additional  
Labor as set  
forth in  
17.4.3 (C)  
preceding.

##### (B) Additional Automatic Testing - Switched Access

To First Point  
of Switching

##### Additional Tests

Per Test Per  
Transmission Path

Gain-Slope Tests	\$2.89
C-Notched Noise Tests	\$2.89
1004 Hz Loss**	\$2.89
C-Message Noise**	\$2.89
Balance (return loss)**	\$2.89

\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

\*\* 1004 Hz Loss, C-Message Noise and Balance are non-chargeable routine tests, however, they may be requested on an as needed or more than routine scheduled basis, in which case the charges herein apply.

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Rates and Charges

17.4 Other Services (Cont'd)

17.4.4 Miscellaneous Services (Cont'd)

(C) Additional Manual Testing -  
Switched Access

To First Point  
of Switching

Additional Tests

Each Half Hour  
or Fraction  
Thereof

Gain-Slope,  
C-Notched Noise and  
any other agreed to  
tests, per technician

See the rates  
for Additional  
Labor as set  
forth in 17.4.3(C)  
preceding

(D) Additional Cooperative Acceptance  
Testing - Special Access

Testing Periods

Basic Time, Overtime\*  
and Premium Time\*

Each Half Hour  
or Fraction  
Thereof

See the rates  
for Additional  
Labor as set  
forth in 17.4.3(C)  
preceding.

\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

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Rates and Charges

17.4 Other Services (Cont'd)

17.4.4 Miscellaneous Services (Cont'd)

(E) Additional Manual Testing - Special Access

Each Half  
Hour or  
Fraction  
Thereof

Testing Periods

Basic Time, Overtime\*  
and Premium Time\*

See the  
rates for  
Additional  
Labor  
as set  
forth in  
17.4.3(C)  
preceding.

(F) Maintenance of Service

Each Half  
Hour or  
Fraction  
Thereof

Testing Periods

Basic Time, Overtime\*  
and Premium Time\*

See the  
rates for  
Additional  
Labor  
as set  
forth in  
17.4.3(C)  
preceding.

\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.



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## Rates and Charges

17.4 Other Services (Cont'd)17.4.4 Miscellaneous Services (Cont'd)

(G)	<u>Telecommunications Service Priority</u>	<u>Nonrecurring Charge</u>
	Per service arranged	-
(H)	<u>Controller Arrangement</u>	<u>Monthly Rate</u>
	Per Arrangement	\$100.00
(I)	<u>Presubscription</u>	<u>Nonrecurring Charge</u>
	(1) <u>InterLATA</u> - per Telephone Exchange Service line or trunk*	\$5.00
	(2) <u>IntraLATA</u> - per Telephone Exchange Service line or trunk*	\$5.00
	(3) <u>Equal Access Cost Recovery</u> - per Originating Intrastate Switched Access Minute of Use	To Be Determined
(J)	<u>Provision of Access Services Billing Information</u>	
	Regulations concerning Access Services Billing are set forth in 13.10 preceding.	
	(1) <u>Secondary Bill</u>	<u>Monthly Rate</u>
	Standard Paper(per page)	\$0.03
	Magnetic Tape(per tape)	\$39.50
	Data Transmission(per transmission)	\$20.25
	(2) <u>Additional Copies</u>	<u>Non Recurring Charge</u>
	Standard Paper(per page)	\$0.06
	Magnetic Tape(per tape)	\$48.00
	Data Transmission(per transmission)	\$28.00

- This charge is generally billed to the end user who is the subscriber to the Telephone Exchange Service. In those instances where the IC both requests the presubscription change, and requests the associated charge be billed to it, the Telephone Company will bill the IC. In the event an end user is incorrectly presubscribed due to misassignment on the part of the Telephone Company, no charge shall apply. In the event an end user is incorrectly presubscribed due to misassignment on the part of the IC, and the IC is unable to document such an assignment, the Telephone Company will apply the charge to the IC responsible for the misassignment of the end user and assign the end user to an IC of the end user's choice.

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17.4 Other Services (Cont'd)17.4.4 Miscellaneous Services (Cont'd)

(K)	<u>Blocking Service*</u>	Nonrecurring <u>Charge</u>
-	Per exchange service line. or trunk and/or per Feature Group A Switched Access Line	-
(L)	<u>Billing Name and Address Service</u>	
-	Per BNA Record	ICB
(M)	<u>Unauthorized PIC Change</u>	
-	Residence/Business Per Telephone Exchange Service Line or Trunk	\$35.65
-	Public and/or Semi- Public Pay Telephone per Telephone Exchange Service Line or Trunk	\$57.57

\* Blocking access to 900 Service is offered to all subscribers at no charge at the time telephone service is established at a new number and for 60 days thereafter.

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17.4 Other Services (Cont'd)

17.4.5 Reserved For Future Use

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17.4 Other Services (Cont'd)

17.4.6 Special Facilities Routing of Access Services

(A) Diversity

For each service provided in accordance with 11.1.1 preceding, the rates and charges will be developed on an individual case basis.

(Reserved for future use.)

(B) Avoidance

For each service provided in accordance with 11.1.2 preceding, the rates and charges will be developed on an individual case basis.

(Reserved for future use.)

(C) Diversity and Avoidance Combined

For each service provided in accordance with 11.1.1 and 11.1.2 preceding, combined, the rates and charges will be developed on an individual case basis.

(Reserved for future use.)

(D) Cable-Only Facilities

For each service provided in accordance with 11.1.4 preceding, the rates and charges will be developed on an individual case basis.

(Reserved for future use.)

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17.4 Other Services (Cont'd)

17.4.7 Specialized Service or Arrangements

Specialized Service or Arrangements are provided on an individual case basis as set forth following:  
(Reserved for future use.)